

FORECAST EARTH

EPA #3 - OZONE DEPLETION: SCIENCE AND RESPONSES

DATE 06/19/03

Final Script

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T/CODE	VIDEO	AUDIO
	<p>EARTH FROM SPACE SHOT?</p> <p>GENE RHODEN CROP SHOT</p> <p>FROG SHOTS</p> <p>BEAUTIFUL COUNTRY AIR CONTRASTS</p> <p>CITY SMOG SHOT</p>	<p><u>VO #1:</u> IF WE HAD A GLIMPSE INTO THE YEAR 2050, WHAT WOULD WE SEE?</p> <p>WILL AQUATIC ENVIRONMENTS BE STABLE?</p> <p>WILL CROPS STILL FLOURISH?</p> <p>WILL THE SUN'S ULTRAVIOLET RAYS BE MORE INTENSE?</p>
	<p>OZONE ANIMATION</p> <p>SUN ANIMATION</p>	<p><u>VO #2:</u> THE ANSWERS WILL BE DEPENDENT UPON THE RECOVERY OF THE WORLD'S DEPLETED OZONE LAYER.</p> <p>AND WHETHER OR NOT IT CONTINUES TO SHIELD THE EARTH FROM THE SUN'S DANGEROUS ULTRA-VIOLET RADIATION.</p>
		<p><u>VO #3:</u> IN THE 1970'S, NOBEL LAUREAT DR. F. SHERWOOD ROWLAND DISCOVERED THAT THE MAIN CULPRITS OF OZONE DEPLETION WERE CHLORO-FLOUROCARBONS – OR CFC'S: FOUND IN AEROSOL SPRAYS AND COOLANTS.</p>
		<p>DR. ROWLAND: 01:12:06:00 I spoke up publicly about it in June of 1974. 01:07:41:00 // there was a lot of resistance from the industry at that time. When the Antarctic Ozone hole // was identified in 1985, // then the uh resistance fell away rather rapidly//</p>
		<p><u>VO #4:</u> SINCE 1987, NEARLY 200 WORLD LEADERS HAVE JOINED THE UNITED STATES TO ADDRESS THE VERY REAL DANGER OF OZONE DEPLETION BY RATIFYING A TREATY CALLED THE MONTREAL PROTOCOL WHICH BANS THE USE OF OZONE DEPLETING CHEMICALS.</p>
		<p><u>VO #5:</u> BEYOND HARMFUL</p>

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		CHLOROFLOUROCARBONS, OTHER OZONE DEPLETING SUBSTANCES EXIST WITHIN OUR STRATOSPHERE.
		DR. ROWLAND: 01:06:26:00 // the Montreal Protocol also covers // compounds which contain bromine. These include halons, which are used for fire prevention, and //others like methylbromide which are widely used as // insecticides and pesticides.
		<u>VO #6:</u> THE ENVIRONMENTAL PROTECTION AGENCY ENFORCES THE MONTREAL PROTOCOL AND SUPPORTS SCIENTISTS IN THE DEVELOPMENT OF SAFE CHEMICAL ALTERNATIVES.
		<u>VO #7:</u> THE SITUATION IS SERIOUS – BUT PROGRESS <u>IS</u> BEING MADE. ONE EXAMPLE IS THE RECYCLING OF THE REFRIGERATION CHEMICAL FREON.
		PETE MARS: 00:10:10 We send it off to //a Freon recycling company // because it's no longer manufacturable according to the Montreal protocol.
		<u>VO #8:</u> IT IS ONLY BY SUSTAINING THE PROGRESS THAT'S BEING MADE, THAT WE CAN ENSURE THAT OUR PROTECTIVE OZONE LAYER HEALS BY THE YEAR 2050.
	THE END	